INCH-POUND

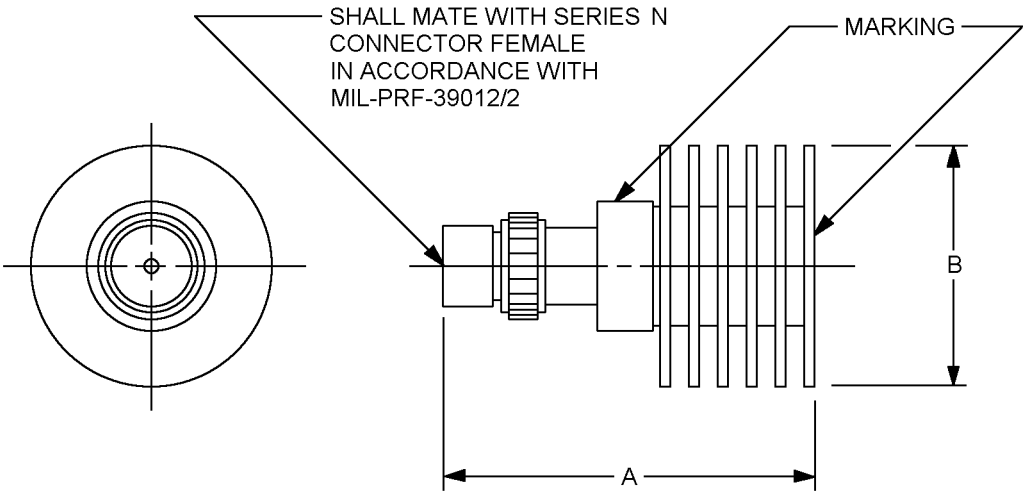
MIL-DTL-39030/11A
14 April 2003
SUPERSEDING
MIL-D-39030/11
22 December 1990

DETAIL SPECIFICATION SHEET

DUMMY LOAD, ELECTRICAL, COAXIAL, TYPE V (N), HIGH POWER

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-39030.



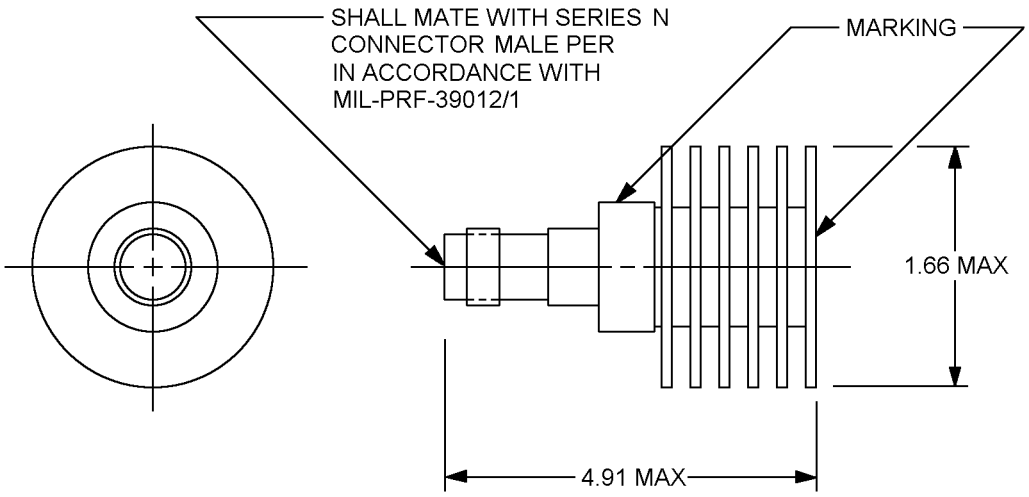
Dash number	A	B
01	4.61 ±.06	1.63 ±.03
02	5.06 ±.03	1.63 ±.03

Inches	mm
.03	.8
.06	1.5
1.63	41.4
4.61	117.1
5.06	128.5

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Part or Identifying Number (PIN).

FIGURE 1. Dimensions and configuration, PINs M39030/11-01 and -02.

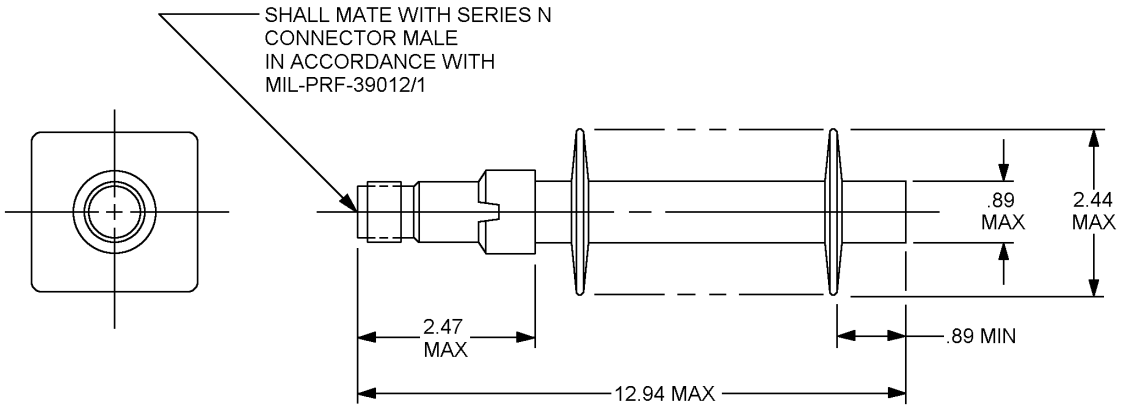
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



Inches	mm
1.66	42.2
4.91	124.7

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGUER 2. Dimensions and configuration, PIN M39030/11-03.



Inches	mm
.89	26.6
2.44	62.0
2.47	62.7
12.94	328.7

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGUER 3. Dimensions and configuration, PIN M39030/11-04.

TABLE I. Dash numbers and characteristics.

Dash number	Operating frequency (GHz)	VSWR (max)	Power handling capability (max)		Nominal characteristic impedance (ohms)	Weight (max) (oz)	Finish	Figure number
			Average (watts)	Peak (watts)				
01	DC to 8.0	1.10:1 (DC to 1.0 GHz) 1.20:1 (1.0 to 4.0 GHz) 1.40:1 (4.0 to 8.0 GHz)	50 1/	5.0K 1/	50	10	Body 2/ Connector 3/	1
02	DC to 10.0	1.10:1 (DC to 4.0 GHz) 1.30:1 (4.0 to 10.0 GHz)	40 1/	7.5K 1/	50	10	Body 2/ Connector 3/	1
03	DC to 10.0	1.10:1 (DC to 4.0 GHz) 1.30:1 (4.0 to 10.0 GHz)	40 1/	7.5K 1/	50	10	Body 2/ Connector 3/	2
04	.7 to 18.0	1.20:1	175 1/	10K 1/	50	40	Body 2/ Connector 3/	3

1/ Power input is derated linearly from 100 percent at +25°C to 10 percent at specified maximum ambient operating temperature.
2/ Anodized in accordance with MIL-A-8625.
3/ Gold plated in accordance with ASTM B488, type 3, grade C, class 1.27.

REQUIREMENTS:

Dimension and configurations: See figures 1 thru 3.

Electrical characteristics: See table I.

Materials:

Body: Aluminum alloy in accordance with ASTM B211 and SAE-AMS-QQ-A-225.

Finish: See table I.

Connector: Corrosion-resistant steel in accordance with SAE-AMS-QQ-S-763.

Finish: See table I.

Contact pin and contact socket: Beryllium copper in accordance with ASTM B196, ASTM B197 AND ASTM B194.

Finish: The male pin shall be a minimum gold thickness of 50 micro inches (1.27μm) in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27 μm) minimum of nickel in accordance with AMS-QQ-N-290, class 1, measured anywhere along the mating surface, for all series. The socket contact shall be a minimum of 50 micro inches (1.27μm) of gold in accordance with ASTM B488, type 3, grade C, class 1.27, over 50 micro inches (1.27 μm) minimum of nickel in accordance with AMS-QQ-N-290, class 1, including the I.D., measured at a depth of .040 inch minimum. The plating on non-significant surfaces in the I.D. shall be of sufficient thickness to ensure plating continuity and uniform utility and protection. This plating may consist of an underplate only. A silver underplate shall not be emitted.

Weight: See table I.

Ambient temperature range:

Operating:
Dash numbers 01 thru 03: -55°C to +125°C.
Dash number 04: -55°C to +160°C.

Nonoperating (storage):
Dash numbers 01 thru 03: -65°C to +125°C.
Dash number 04: -65°C to +175°C.

PIN: M39030/11-(dash number from table I).

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA -CC

(Project 5985-1244-007)

Review activities:
Army - AV, MI
Navy - AS, OS, SH
Air Force -19